



Patent  
Attorney's Docket No. 024445-349

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)	
Torbjörn JOELSSON et al.	)	Group Art Unit: 1774
Application No.: 10/606,963	)	Examiner: UNASSIGNED
Filed: June 27, 2003	)	Confirmation No.: 4842
For: WEAR RESISTANT COATING WITH	)	
ENHANCED TOUGHNESS	)	

**INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ [X] No additional fee for submission of an IDS is required.
- ☐ [ ] The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ [ ] A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ [ ] A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ [ ] Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ [ ] A check in the amount of \$\_\_\_\_\_ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

By: Ronald L. Grudziecki  
Ronald L. Grudziecki  
Registration No. 24,970

Date: February 12, 2004



Patent  
Attorney's Docket No. 024445-349

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	
	)	
Torbjörn JOELSSON et al.	)	Group Art Unit: 1774
	)	
Application No.: 10/606,963	)	Examiner: UNASSIGNED
	)	
Filed: June 27, 2003	)	Confirmation No.: 4842
	)	
For: WEAR RESISTANT COATING WITH	)	
ENHANCED TOUGHNESS	)	

**FIRST**  
**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the information listed on the attached form PTO-1449 in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b) no fee or statement is required.


It is respectfully requested that an Examiner-initialed copy of the attached form PTO-1449 be returned to the undersigned.

Respectfully submitted,

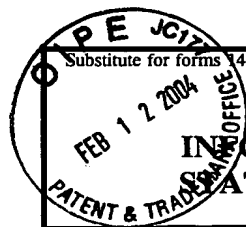
BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: February 12, 2004

By:

  
\_\_\_\_\_  
Ronald L. Grudziecki  
Registration No. 24,970

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



Substitute for forms 1449A/PTO &amp; 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

 ATTORNEY'S DKT NO.  
024445-349

 APPLICATION NO.  
10/606,963

 APPLICANT  
Torbjörn JOELSSON et al.

 FILING DATE  
June 27, 2003

 GROUP  
1774

## U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	5,208,102		SCHULZ et al.	05-04-1993
	5,330,853		HOFMANN et al.	07-19-1994
	5,549,975		SCHULZ et al.	08-27-1996
	5,942,455		BARSOUM et al.	08-24-1999
	6,013,322		BARSOUM et al.	01-11-2000

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes	No
	0 448 720	B1	EP	07-05-1995	X	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	W. Jeitschko und H. Nowotny, DIE KRISTALLSTRUKTUR von $Ti_3SiC_2$ - ein neuer KOMPLEXCARBID-TYP, Monatsh für Chem. Vol. 98 pp. 329-337 (1967)
	J. J. Nickl et al., GASPHASENABSCHEIDUNG IM SYSTEM Ti-Si-C, Journal of the Less-Common Metals Vol. 26 pp 335-353 (1972)
	T. Goto et al., CHEMICALLY VAPOR DEPOSITED $Ti_3SiC_2$ , Mat. Res. Bull., Vol. 22 pp. 1195-1201 (1987)
	T. Seppänen et al., STRUCTURAL CHARACTERIZATION OF EPITAXIAL $Ti_3SiC_2$ FILMS, Proceedings Scandinavian Society for Electron Microscopy June 12-15-2002, pp. 142-143
	M. W. Barsoum, THE $M_{N+1}AX_N$ PHASES: A NEW CLASS OF SOLIDS; THERMODYNAMICALLY STABLE NANOLAMINATES, Prog. Solid St. Chem. Vol. 28 pp. 201-228 (2000)

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.